



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Nigam, et al.

Art Unit: 1616

Serial No.: 09/595,195

Examiner: Unknown

Filed : June 16, 2000

Title : EX-VIVO PROPAGATION OF KIDNEY

Commissioner for Patents
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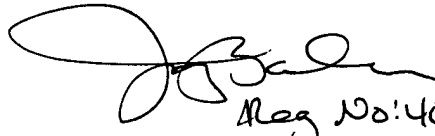
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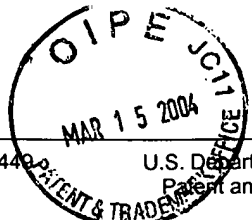
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 15670-021001	Application No. 09/595,195
	Applicant Nigam, et al.		
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Other Documents (include Author, Title, Date, and Place of Publication)

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	AU	Hammerman, et al., "Acute renal failure. III. The role of growth factors in the process of renal regeneration and repair", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 279, pp. F3-F11, 2000
	AV	Steinberg, et al., "Cadherins and their connections: adhesion junctions have broader functions", <u>Curr. Opin. Cell Biol.</u> , Vol. 11, No. 5, pp. 554-560, October, 1999
	AW	Le, et al., "Recycling of E-Cadherin: A Potential Mechanism for Regulating Cadherin Dynamics", <u>The Journal of Cell Biology</u> , Vol. 146, No. 1, pp. 219-232, July 12, 1999
	AX	Denker, et al., "Molecular structure and assembly of the tight junction", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 274, pp. F1-F9, 1998
	AY	Tsukamoto, et al., "Role of tyrosine phosphorylation in the reassembly of occludin and other tight junction proteins", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 276, pp. F737-750, 1999
	AZ	Ye, et al., "A role for intracellular calcium in tight junction reassembly after ATP depletion-repletion", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 277, pp. F524-F532, 1999
	AAA	Nigam, et al., "A Set of Endoplasmic Reticulum Proteins Possessing Properties of Molecular Chaperones Includes Ca ²⁺ -binding Proteins and Members of the Thioredoxin Superfamily", <u>The Journal of Biological Chemistry</u> , Vol. 269, No. 3, pp. 1744-1749, January 21, 1994
	ABB	Bush, et al., "Proteasome Inhibition Leads to a Heat-shock Response, Induction of Endoplasmic Reticulum Chaperones, and Thermotolerance", <u>The Journal of Biological Chemistry</u> , Vol. 272, No. 14, pp. 9086-9092, April 4, 1997
	ACC	Dong, et al., "Intracellular CA ²⁺ Thresholds That Determine Survival or Death of Energy-Deprived Cells", <u>American Journal of Pathology</u> , Vol. 152, No. 1, pp. 231-240, January 1998
	ADD	Kribben, et al., "Evidence for Role of Cytosolic Free Calcium in Hypoxia-Induced Proximal Tubule Injury", <u>J. Clin. Invest.</u> , Vol. 93, pp. 1922-1929, May, 1994
	AEE	Liu, et al., "Endoplasmic Reticulum Stress Proteins Block Oxidant-induced CA ²⁺ Increases and Cell Death", <u>The Journal of Biological Chemistry</u> , Vol. 273, No. 21, pp. 12858-12862, May 22, 1998
	AFF	Yu, et al., "The Endoplasmic Reticulum Stress-Responsive Protein GRP78 Protects Neurons Against Excitotoxicity and Apoptosis: Suppression of Oxidative Stress and Stabilization of Calcium Homeostasis", <u>Experimental Neurology</u> , Vol. 155, No. 2, pp. 302-314, February, 1999
	AGG	Bian, et al., "Roles of Cytoplasmic Ca ²⁺ and intracellular CA ²⁺ stores in induction and suppression of apoptosis in S49 cells", <u>American Journal of Physiology</u> , Vol. 272, No. 4, pp. C1241-1249, April, 1997
	AHH	Bush, et al., "Genesis and reversal of the ischemic phenotype in epithelial cells", <u>The Journal of Clinical Investigation</u> , Vol. 106, No. 5, pp. 621-626, September, 2000
	AII	Milner, et al., "A Novel 17 kD Heparin-Binding Growth Factor (HBGF-8) in Bovine Uterus: Purification and N-Terminal Amino Acid Sequence", <u>Biochemical and Biophysical Research Communications</u> , Vp./ 165, No. 3, pp. 1096-1103, December 29, 1989
	AJJ	Mitsiadis, et al., "Expression of the heparin-binding cytokines, midkine (MK) and HB-GAM (pleiotrophin) is associated with epithelial-mesenchymal interactions during fetal development and organogenesis", <u>Development</u> , Vol. 121, pp. 37-51, 1995
	AKK	Sato, et al., "Pleiotrophin as a Swiss 3T3 Cell-Derived Potent Mitogen for Adult Rat Hepatocytes", <u>Experimental Cell Research</u> , Vol. 246, Number 1, pp. 152-164, January 10, 1999
	ALL	Kurtz, et al., "Pleiotrophin and Midkine in Normal Development and Tumor Biology", <u>Critical Reviews in Oncogenesis</u> , Vol. 6, No. 2, pp. 151-177, 1995

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	AMM	Rauvala, et al. "Expression of HB-GAM (heparin-binding growth-associated molecules) in the pathways of developing axonal processes in vivo and neurite outgrowth in vitro induced by HB-GAM" <u>Developmental Brain Research</u> , Voll. 79, pp. 157-176, 1994
	ANN	Imai, et al., "Osteoblast Recruitment and Bone Formation Enhanced by Cell Matrix-associated Heparin-binding Growth-associated Molecule (HB-GAM), <u>The Journal of Cell Biology</u> , Vol. 143, Number 4, pp. 1113-1128, November 16, 1998
	AOO	Tomita, et al, "Direct in Vivo Gene Introduction into Rat Kidney", <u>Biochemical and Biophysical Research Communications</u> , Vol. 186, No. 1, pp. 129-134, July 15, 1992
	APP	Zhu, et al., "Systemic Gene Expression After Intravenous DNA Delivery into Adult Mice", <u>Science</u> , Vol. 261, pp. 209-211, July 9, 1993
	AQQ	Moullier, et al., "Adenoviral-mediated gene transfer to renal tubular cells <i>in vivo</i> ", <u>Kidney International</u> , Vol. 45, pp. 1220-1225, 1994
	ARR	Montesano, et al., "Induction of Epithelial tubular Morphogenesis in Vitro by Fibroblast-Derived Soluble Factors", <u>Cell</u> , Vol. 66, pp. 697-711, August 23, 1991
	ASS	Bladt, et al., "Essential role for the c-met receptor in themigration of myogenic precursor cells into the limb bud", <u>Nature</u> , Vol. 376, No. 6543, pp. 68-771, August 31, 1995
	ATT	Schmidt, et al., "Scatter factor/hepatocyte growth factor is essential for liver development", <u>Nature</u> , Vol. 373, No. 6516, pp. 699-702, February 23, 1995
	AUU	Schuchardt, et al., "Renal agenesis and hypodysplasia in ret-k- mutant mice result from defects in ureteric bud development", <u>Development</u> , Vol. 122, No. 6, pp. 1919-1929, June, 1996
	AVV	Metzger, et al., "Genetic Control of Branching Morphogenesis", <u>Science</u> , Vol. 284, pp. 1635-1639, June 4, 1999
	AWW	Ohuchi, et al., "FGF10 Acts as a Major Ligand for FGF Receptor 2 IIIb in Mouse Multi-Organ Development", <u>Biochemical and Biophysical Research Communications</u> , Vol. 277, No. 3, pp. 643-649, November 2, 2000
	AXX	Bullock, et al., "Renal agenesis in mice homozygous for a gene trap mutation in the gene encoding heparan sulfate 2-sulfotransferase", <u>Genes & Development</u> , Vol. 12, No. 12, pp. 1894-1906, June 15, 1998
	AYY	Bullock, et al., "Developmental and species differences in the response of the ureter to metabolic inhibition", <u>European Journal of Physiology</u> , Vol. 436, No. 3, pp. 443-448, August, 1998
	AZZ	Davies, et al., "Sulphated proteoglycan is required for collecting duct growth and branching but not nephron formation during kidney development", <u>Development</u> , Vol. 121, Issue 5, pp. 1507-1517, 1995
	AAAA	Kispert, et al., "Proteoglycans are required for maintenance of Wnt-11 expression in the ureter tips" <u>Development</u> , Vol. 122, pp. 3627-3637, 1996
	ABBB	Montesano, et al., "Identification of a Fibroblast-Derived Epithelial Morphogen as Hepatocyte Growth Factor", <u>Cell</u> , Vol. 67, No. 5, pp. 901-908, November 29, 1991
	ACCC	Zelzer, et al., "Cell fate choices in <i>Drosophila</i> tracheal morphogenesis", <u>BioEssays</u> , Vol. 22, No. 3, pp. 219-226, March, 2000
	ADDD	Enomoto, et al., "GFR α -1 Deficient Mice Have Deficits in the Enteric Nervous System and Kidneys", <u>Neuron</u> , Vol. 21, No. 2, pp. 317-324, August, 1998
	- AEEE	Imai, et al., "Towards gene therapy for renal diseases", <u>Nephrologie</u> , Vol. 18, No. 7, pp. 397-402, 1998

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	AFFF	Imai, et al., "Gene transfer and kidney disease", <u>Journal of Nephrology</u> , Vol. 11, No. 1, pp. 16-19, January-February, 1998
	AGGG	Imai, et al., "Strategies of gene transfer fo the kidney", <u>Kidney</u> , Vol. 53, No. 2, pp. 264-272, February, 1998
	AHHH	Meng, et al., "Pleiotrophin signals increased tyrosine phosphorylation of β -catenin through inactivation of the intrinsic catalytic activity of the receptor-type protein tyrosine phosphatase β/ζ ", <u>Proc. Natl. Acad. Sci.</u> , Vol. 97, No. 6, pp. 2603-2608, March 14, 2000
	AIII	Vainio, et al., "Epithelial-Mesenchymal Interactions Regulate the Stage-Specific Expression of a Cell Surface Proteoglycan, Syndecan, in the Developing Kidney", <u>Developmental Biology</u> , Vol. 134, No. 2, pp. 382-391, August, 1989
	AJJJ	Vainio, et al., "Syndecan and Tenascin Expression is Induced by Epithelial-Mesenchymal Interactions in Embryonic Tooth Mesenchyme", <u>The Journal of Cell Biology</u> , Vol. 108, No. 5, pp. 1945-1954, May, 1989
	AKKK	Ohuchi, et al., "Renal tubular effects of endothelin-B receptor signaling: its role in cardiovascular homeostasis and extracellular volume regulation", <u>Curr Opin Nephrol Hyperten.</u> , Vol. 9, No. 4, pp. 435-439, July, 2000
	ALLL	Thadhani, et al., "Acute renal failure", <u>The New England Journal of Medicine</u> , Vol. 334, No. 2, pp. 1448-1460, May 30, 1996
	AMMM	Bonventre, et al., "Acture renal failure. I. Relative importance of proximal vs. distal tubular injury", <u>Am. J. Physiol.</u> , Vol. 275, No. 5, pp. F623-F631, November, 1998
	ANNN	Molitoris, et al., "Acute renal failure. II. Experimental models of acute renal failure: imperfect but indispensable", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 278, No. 1, pp. F1-F12, January, 2000
	AOOO	Fish, et al., "Alterations of Epithelial Polarity and the Pathogenesis of Disease States", <u>The New England Journal of Medicine</u> , Vol. 330, No. 14, pp. 1580-1588, April 7, 1994
	APPP	Tsukamoto, et al., "Tight Junction Proteins Form Large Complexes and Associate with the Cytoskeleton in an ATP D epletion Model for Reversible Junction Assembly", <u>The Journal of Biological Chemistry</u> , Vol. 272, No. 26, pp. 16133-16139, June 27, 1997
	AQQQ	Hammerman, et al., "Acute renal failure. III. The role of growth factors in the process of renal regeneration and repair", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 279, No. 1, pp. F3-F11, July, 2000
	ARRR	Gailit, et al., "Redistribution and dysfunction of integrins in cultured renal epithelial cells exposed to oxidative stress", <u>American Journal of Physiology</u> , Vol. 264, No. 1, pp. F149-F157, January, 1993
	ASSS	Lieberthal, et al., " β Integrin-Mediated Adhesion between Renal Tubular Cells after Anoxic Injury", <u>Journal of the American Society of Nephrology</u> , Vol. 8, Issue 2, pp. 175-183, February, 1997
	ATTT	Zuk, et al., "Polarity, integrin, and extracellular matrix dynamics in the postischemic rat kidney", <u>American Journal of Physiology</u> , Vol. 275, No. 3, pp. C711-C731, September, 1998
	AUUU	Gumbiner, et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex", <u>The Journal of Cell Biology</u> , Vol. 107, No. 4, pp. 1575-1587, October, 1988
	AVVV	McNeill, et al., "Novel Function of the Cell Adhesion Molecule Uvomorulin as an Inducer of Cell Surface Polarity", <u>Cell</u> , Vol. 62, No. 2, pp. 309-316, July 27, 1990
	AWWW	Mandel, et al., "ATP depletion: a novel method to study junctional properties in epithelial tissues. II. Internalization of Na^+ , K^+ -ATPase and E-cadherin", <u>Journal of Cell Science</u> , Vol. 107, Part 12, pp. 309-316, December, 1994

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	AXXX	Tsukita, et al., "Structural and signalling molecules come together at tight junctions", <u>Current Opinion in Cell Biology</u> , Vol. 11, No. 5, pp. 628-633, October, 1999
	AYYY	Denker, et al., "Molecular structure and assembly of the tight junction", <u>American Journal of Physiology</u> , Vol. 274, No. 1, pp. F1-F9, January, 1998
	AZZZ	Gopalakrishnan, et al., "Rho GTPase signaling regulates tight junction assembly and protects tight junctions during ATP depletion", <u>American Journal of Physiology</u> , Vol. 275, No. 3, pp. C798-C809, September, 1998
	AAAAA	Kuznetsov, et al., "Folding of Secretory and Membrane Proteins", <u>The New England Journal of Medicine</u> , Vol. 339, No. 23, pp. 1688-1695, December 3, 1998
	ABBBB	Van Why, et al., "Thresholds for cellular disruption and activation of the stress response in renal epithelia", <u>American Journal of Physiology</u> , Vol. 277, No. 2, pp. F227-F234, August, 1999
	ACCCC	Gething, et al., "Protein folding in the cell", <u>Nature</u> , Vol. 355, No. 6355, pp. 33-45, January, 1992
	ADDDD	Gabai, et al., "Rise in heat-shock protein level confers tolerance to energy deprivation", <u>FEBS Letters</u> , Vol. 327, No. 3, pp. 247-250, August, 1993
	AEEEE	Georgopoulos, et al., "Role of the major heat shock proteins as molecular chaperones", <u>Annual Review of Cell Biology</u> , Vol. 9, pp. 601-634, 1993
	AFFFF	Yoo, et al., "Anti-Inflammatory Effect of Heat Shock Protein Induction is Related to Stabilization of IκBα Through Preventing IκB Kinase Activation in Respiratory Epithelial Cells", <u>The Journal of Immunology</u> , Vol. 164, No. 10, pp. 5416-5423, May 15, 2000
	AGGGG	Rauchman, et al., "An osmotically tolerant inner medullary collecting duct cell line from an SV40 transgenic mouse", <u>American Journal of Physiology</u> , Vol. 265, No. 3, pp. F416-F424, September, 1993
	AHHHH	Barasch, et al., "A ureteric bud cell line induces nephrogenesis in two steps by two distinct signals", <u>American Journal of Physiology</u> , Vol. 271, No. 1, pp. F50-F61, July, 1996
	AIIII	Barasch, et al., "Ureteric bud cells secrete multiple factors, including bFGF, which rescue renal progenitors from apoptosis", <u>American Journal of Physiology</u> , Vol. 273, No. 5, pp. F757-F767, November, 1997
	AJJJJ	Laitinen, et al., "Changes in the Glycosylation Pattern During Embryonic Development of Mouse Kidney as Revealed with lectin Conjugates", <u>The Journal of Histochemistry and Cytochemistry</u> , Vol. 35, No. 1, pp. 55-65, 1987
	AKKKK	Gilbert, et al., "Defect of Nephrogenesis Induced by Gentamicin in Rat Metanephric Organ Culture", <u>Laboratory Investigation</u> , Vol. 70, No. 5, pp. 656-666, May, 1994
	ALLLL	O'Rourke, et al., "Expression of c-ret promotes morphogenesis and cell survival in mIMCD-3 cells", <u>American Journal of Physiology</u> , Vol. 276, No. 4, pp. F581-F589, April, 1999
	AMMMM	Al-Awqati, et al., "Architectural patterns in branching morphogenesis in the kidney", <u>Kidney International</u> , Vol. 54, No. 6, pp. 1832-1842, December, 1998
	ANNNN	Liu, et al., "Comparative Role of Phosphotyrosine Kinase Domains of c-ros and c-ret Protooncogenes in Metanephric Development with Respect to Growth Factors and Matrix Morphogens", <u>Developmental Biology</u> , Vol. 178, pp. 133-148, 1996
	AOOOO	Rauvala, et al., "An 18-kd heparin-binding protein of developing brain that is distinct from fibroblast growth factors", <u>The EMBO Journal</u> , Vol. 8, no. 10, pp. 2933-2941, 1989
	APPPP	Li, et al., "Cloning and Expression of a Developmentally Regulated Protein that Induces Mitogenic and Neurite Outgrowth Activity", <u>Science</u> , Vol. 250, No. 4988, pp. 1690-1694, December 21, 1990

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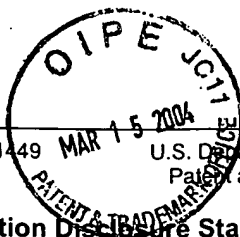
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	AQQQQ	Vanderwinden, et al., "Cellular distribution of the new growth factor Pleiotrophin (HB-GAM) mRNA in developing and adult rat tissues", <u>Anat. Embryol.</u> Vol. 186, pp. 387-406, 1992
	ARRRR	Sweet, et al., "Impaired Organic Anion Transport in Kidney and Choroid Plexus of Organic Anion Transporter 3 (<i>Oat3</i> (<i>Slc22a8</i>)) Knockout Mice", <u>The Journal of Biological Chemistry</u> , Vol. 277, No. 30, pp. 26934-26943, July 26, 2002
	ASSSS	Sweet, et al., "The organic anion transporter family: from physiology to ontogeny and the clinic", <u>Am. J. Physiol. Renal Physiol.</u> Vol. 281, pp. F197-F205, 2001
	ATTTT	Steer, et al. "A strategy for in vitro propagation of rat nephrons Rapid Communication", <u>Kidney International</u> , Vol. 62, pp. 1958-1965, 2002
	AUUUU	Nigam, et al., "Toward an understanding of epithelial morphogenesis in health and disease", <u>Current Opinion in Nephrology and Hypertension</u> , Vol. 1, pp. 187-191, 1992
	AVVVV	Sakurai, et al., "Identification of pleiotrophin as a mesenchymal factor involved in ureteric bud branching morphogenesis", <u>Development</u> , Vol. 128, pp. 3283-3293, 2001

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Foreign Patent Documents or Published Foreign Patent Applications								
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	AL							
	AM							
	AN							
	AO							
	AP							

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	AQ	Kuznetsov, et al., "Perturbations in maturation of secretory proteins and their association with endoplasmic reticulum chaperones in a cell culture model for epithelial ischemia", <u>Proc. Natl. Acad. Sci.</u> , Vol. 93, pp. 8584-8589, August, 1996
	AR	Molitoris, et al., "Role of the actin cytoskeleton in ischemia-induced cell injury and repair", <u>Pediatric Nephrol.</u> , Vol. 11, pp. 761-767. 1997
	AS	Bush, et al., "Selective degradation of E-cadherin and dissolution of E-cadherin-catenin complexes in epithelial ischemia", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 278, pp. F847-852, 2000
	AT	Bush, et al., "Pretreatment with inducers of ER molecular chaperones protects epithelial cells subjected to ATP depletion", <u>Am. J. Physiol. Renal Physiol.</u> , Vol. 277, pp. F211-218, 1999

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